

Installation procedures

Painting

NOTE: If you are choosing to paint your 100 Series loudspeaker, we recommend you do this prior to installation by following these simple steps:

1. Remove the membrane scrim from the inside of the grille (do not fit grille to speaker frame).
2. Place paint mask over the speaker baffle.
3. Paint both the frame and the grille at the same time and with the same batch of paint (if they are to be the same colour).
4. When they are both dry, remove the paint mask from the baffle, and place the spare membrane scrim (in the packaging) into the inside of the grille.
5. Your product(s) are now ready to install, including fitting the grille.

Using Pre-Construction Brackets

If the holes have been pre-cut, simply refer to step 4 onwards (below) for full fitting instructions.
If pre-construction brackets have been used prior to the fixing of plaster board/ sheet rock and the holes have not been cut, locate the pre-construction brackets and cut around the inside edge of the bracket. Locate the speaker cable, connect to the sprung terminals and fit the speaker. Refer to the fitting instructions below (step 4 onwards).
To fine-tune the speakers please refer to the high frequency control and boundary compensation details below

Using the Fixing Template

1. Use template to locate position of cut out. The adhesive backing allows for repositioning a number of times.
2. Draw around diameter of the template.
3. Remove template and cut hole.
4. Locate speaker cable and connect by pushing the terminals in and releasing to clamp the cables.
5. Fit product into prepared hole and tighten fixing clamps. These will move outwards automatically upon tightening! DO NOT OVER TIGHTEN! Once contact is made 2-3 turns are all that is required.
6. To fine-tune the speakers please refer to the high frequency control details below.

High Frequency control

The factory H.F setting provides a flat or odB level, which will suit the majority of typical installations.

Setting the switch in the +3dB position will add brightness and additional clarity to the system. This may be effective in a room with a large amount of soft furnishings.

Setting the switch in the -3dB position will reduce the brightness and provide a duller sound. This may be effective in a room with a few of soft furnishings, or in an installation with a wooden floor.



Monitor Audio Ltd
Unit 2, 24 Brook Road
Rayleigh, Essex
SS6 7XL
England
Tel: 01268 740580
Fax: 01268 740589
Email: info@monitoraudio.co.uk

monitoraudio.co.uk
Designed in the United Kingdom

Installation Guide 100 Series



Installation guide

100 Series

The 100 Series utilises bass drivers featuring the advanced MMP®II cone technology together with Monitor Audio’s trade mark C-CAM® gold dome tweeter. The MMP®II (Metal Matrix Polymer) cone material uses a high-pressure injection moulding process to achieve different thicknesses at critical points in the cone geometry.

High frequency performance has been improved by the evolution of the C-CAM® tweeter. The new tweeter utilises a pivoting action to provide optimum imaging and flexible set-up options. High frequency level control is provided to offer a degree of balance adjustment once installation is completed. See page 2.

Introduction

Please read this installation guide carefully before proceeding.

ALSO AVAILABLE: Pre-construction brackets. These are for use when installing any Custom Installation product before the plaster board/ rock wall, is fitted. They show the location of the speakers to the builder, allow pre-wiring and give them a solid secure edge to cut around. Please ask your dealer about these brackets and to confirm which is correct for your installation.

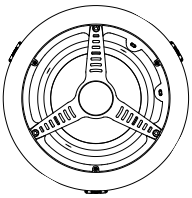
PLEASE CHECK YOU HAVE THE FOLLOWING ITEMS IN THIS KIT BEFORE PROCEEDING:

- 1 x Complete speaker & tweeter assembly.
- 1 x Grille (which can be painted).
- 1 x Mounting cut out template (in packaging).
- 1 x Plastic paint mask (for covering the baffle while painting the frame).
- 1 x Self adhesive grille membrane scrim (to be attached to the inside the grille after it has been painted).
- 1 x Guarantee card in this manual.

Prior to Installation Check the Following:

- Please check the minimum depth of the product (according to the specifications sheet) is correct for the assembly to fit into recess.
- The fixing clamps require a minimum of 25mm (1 Inch) of surface area around the cut-out hole to ensure a secure fixing!
- 100 Series loudspeakers are splash and moisture proof, so they can be used in bathrooms, pool areas, etc. DO NOT allow them to be in constant contact with water/moisture.
- The fixing clamps will operate on ceilings/walls with a minimum thickness of 9mm (3/8 Inches) to a maximum depth of 32mm (1¼ Inches).
- Do not attempt to fix these speakers to your ceiling/wall if you are unsure of your ability to provide a secure and safe fixing. IF IN DOUBT CONTACT YOUR LOCAL AUTHORISED MONITOR AUDIO DEALER.
- Ensure that there are no water pipes, air ducts or electricity cables running immediately behind the cut out area!
- Please work from secure steps or scaffold and avoid trailing wires for your safety and those around you.
- Always turn off the amplifier or other devices in the system when connecting these speakers.

C165



Frequency Response
60Hz - 25KHz

Impedance (nominal)
6 Ohms

Sensitivity (1W@1M)
88.5 dB

Maximum SPL
107.4 dBA

Power Handling (R.M.S)
65 W

Recommended Amp
10 - 65 W

Driver
1 x 6.5" MMP®II cone bass driver
1 x 1" C-CAM® pivoting gold dome tweeter

Controls
+3db / 0db / -3db High Frequency Level Switch

Overall Diameter
250 mm (9 13/16 inch)

Overall Depth
117 mm (4 5/8 inch)

Cut-out Hole Diameter
211 mm (8 5/16 inch)

Mounting Depth
112 mm (4 7/16 inch)

Fixing Type
3 position Tri-Grip dog fixings

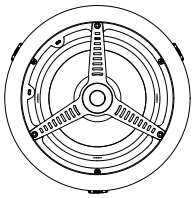
Cable Connection
Gold plated 'push' type terminals

Construction Material
Mineral filled ABS plastic (UL94-VO rated, RoHS compliant)

Pre-construction Bracket
CB6 (Purple)

Weight Kg (lb)
1.92 Kg (4.2 lbs)

C180



Frequency Response
50Hz - 25KHz

Impedance (nominal)
6 Ohms

Sensitivity (1W@1M)
90 dB

Maximum SPL
111.6 dBA

Power Handling (R.M.S)
120 W

Recommended Amp
15 - 120 W

Driver
1 x 8" MMP®II cone bass driver
1 x 1" C-CAM® pivoting gold dome tweeter

Controls
+3db / 0db / -3db High Frequency Level Switch

Overall Diameter
286 mm (11 1/4 inch)

Overall Depth
124 mm (4 7/8 inch)

Cut-out Hole Diameter
247 mm (9 3/4 inch)

Mounting Depth
119 mm (4 11/16 inch)

Fixing Type
3 position Tri-Grip dog fixings

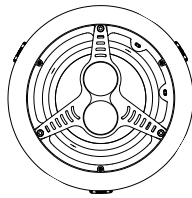
Cable Connection
Gold plated 'push' type terminals

Construction Material
Mineral filled ABS plastic (UL94-VO rated, RoHS compliant)

Pre-construction Bracket
CB8 (Green)

Weight Kg (lb)
2.72 Kg (6 lbs)

C165-T2



Frequency Response
50Hz - 25KHz

Impedance (nominal)
6+6 Ohms

Sensitivity (1W@1M)
89 dB

Maximum SPL
107.9 dBA

Power Handling (R.M.S)
65 W

Recommended Amp
10 - 65 W

Driver
1 x 6.5" MMP®II cone bass driver
2 x 1" C-CAM® pivoting gold dome tweeter

Overall Diameter
250mm (9 13/16 inch)

Overall Depth
117 mm (4 5/8 inch)

Cut-out Hole Diameter
211mm (8 5/16 inch)

Mounting Depth
112 mm (4 7/16 inch)

Fixing Type
3 position Tri-Grip dog fixings

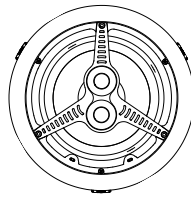
Cable Connection
Gold plated 'push' type terminals

Construction Material
Mineral filled ABS plastic (UL94-VO rated, RoHS compliant)

Pre-construction Bracket
CB6 (Purple)

Weight Kg (lb)
2.08Kg (4.6 lbs)

C180-T2



Frequency Response
50Hz - 25KHz

Impedance (nominal)
6+6 Ohms

Sensitivity (1W@1M)
88 dB

Maximum SPL
111.6 dBA

Power Handling (R.M.S)
65 W

Recommended Amp
15 - 120 W

Driver
1 x 6.5" MMP®II cone bass driver
2 x 1" C-CAM® pivoting gold dome tweeter

Controls
+3db / 0db / -3db High Frequency Level Switch

Overall Diameter
286 mm (11 1/4 inch)

Overall Depth
124 mm (4 7/8 inch)

Cut-out Hole Diameter
247 mm (9 3/4 inch)

Mounting Depth
119 mm (4 11/16 inch)

Fixing Type
3 position Tri-Grip dog fixings

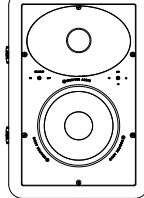
Cable Connection
Gold plated 'push' type terminals

Construction Material
Mineral filled ABS plastic (UL94-VO rated, RoHS compliant)

Pre-construction Bracket
CB8 (Green)

Weight Kg (lb)
3 Kg (6.6 lbs)

W165



Frequency Response
60Hz - 25KHz

Impedance (nominal)
6 Ohms

Sensitivity (1W@1M)
88.5 dB

Maximum SPL
107.4 dBA

Power Handling (R.M.S)
65 W

Recommended Amp
10 - 65 W

Driver
1 x 6.5" MMP®II cone bass driver
1 x 1" C-CAM® pivoting gold dome tweeter

Controls
+3db / 0db / -3db High Frequency Level Switch

Overall Dimensions
H 368 x W 248.5mm
(14 1/2 x 9 13/16 inch)

Overall Depth
94.5mm (3 3/4 inch)

Cut-out Hole Size
H 332 x W 212.5mm
(13 1/16 x 8 3/8 inch)

Mounting Depth
90 mm (3 9/16 inch)

Fixing Type
6 position Tri-Grip dog fixings

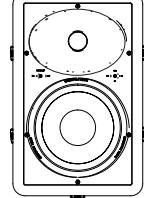
Cable Connection
Gold plated 'push' type terminals

Construction Material
Mineral filled ABS plastic (UL94-VO rated, RoHS compliant)

Pre-construction Bracket
WB6 (purple)

Weight Kg (lb)
2.24 Kg (4.9 lbs)

W180



Frequency Response
50Hz - 25KHz

Impedance (nominal)
6 Ohms

Sensitivity (1W@1M)
90 dB

Maximum SPL
111.6 dBA

Power Handling (R.M.S)
120 W

Recommended Amp
15 - 120 W

Driver
1 x 8" MMP®II cone bass driver
1 x 1" C-CAM® pivoting gold dome tweeter

Controls
+3db / 0db / -3db High Frequency Level Switch

Overall Dimensions
H 423 x W 248.5mm
(16 5/8 x 10 5/8 inch)

Overall Depth
103 mm (4 1/16 inch)

Cut-out Hole Size
H 387 x W 234mm
(15 1/4 x 9 3/16 inch)

Mounting Depth
98.5 mm (3 7/8 inch)

Fixing Type
6 position Tri-Grip dog fixings

Cable Connection
Gold plated 'push' type terminals

Construction Material
Mineral filled ABS plastic (UL94-VO rated, RoHS compliant)

Pre-construction Bracket
WB8 (Green)

Weight Kg (lb)
3.08 Kg (6.8 lbs)

Declaration of Conformity

We, Monitor Audio Ltd.
24 Brook Road
Rayleigh
Essex
SS6 7XL
England

Declare in own responsibility, that the products described in this manual are in compliance with technical standards:
EN 50082-1 : 1998
EN 55013 : 2001
EN 50020 : 2002

Dean Hartley (Technical Director)
Monitor Audio Ltd
England

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